THE INSTITUTE OF PHYSICS

47 BELGRAVE SQUARE, LONDON, S.W.1

BULLETIN

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NOTICES TO MEMBERS

Bournemouth Convention: May 1953

Sir John Cockcroft (Fellow) has accepted an invitation to give the second of the main scientific lectures at the Bournemouth Convention. His subject will be "Recent advances in nuclear physics." Details of the Convention were given in the October Bulletin.

Conference on Static Electrification

The main outlines of the Conference on Static Electrification have now been arranged. The Conference is to be held at Bedford College, London, on 25th–27th March, 1953; residential accommodation will be available. Members will be invited to make bookings for attendance about the end of the year.

The discussions will be arranged in four main sessions. At the first Professor F. A. Vick will give a general introductory lecture. The remaining sessions will each consist of an introductory survey followed by two or three more specialized papers. The specialized papers will be briefly introduced by the authors in order to provide the maximum time for discussion. It is hoped that these papers will be available as pre-prints. The proceedings of the Conference will be published, probably as a supplement to one of the Institute's journals.

The sessions, in addition to Professor Vick's lecture, with the openers are:

General principles of the generation and dissipation of static electricity: Dr. P. S. Henry, F.Inst.P.
Electrostatic Machines: Dr. E. S. Shire.
Harmful Static Electrification: Mr. H. W. Swann, O.B.E.
Useful Applications of Static Electrification: (Opener to be decided.)

One or two additional specialized papers could be accepted, subject to refereeing. Authors who wish to submit such papers should write immediately to the Deputy Secretary of the Institute.

Second International Congress on Rheology

The British Society of Rheology, supported by the Joint Commission on Rheology of the International Council of Scientific Unions, has organized the Second International Congress on Rheology, which is to be held at St. Hilda's College, Oxford, from the evening of Sunday, July 26th, until the afternoon of Friday, July 31st, 1953. The Congress will cover the whole field of the study of the deformation and flow of matter, except such specialized subjects as have come to be regarded as branches of applied mechanics, e.g. the classical theory of elasticity, aerodynamics. The programme will include a presidential address, a number of invited lectures, and a discussion on the international organization of rheology. Arrangements will be made for excursions, visits to colleges, etc., during the Congress. Accommodation will be provided in colleges, or rooms in Oxford. Final application should be made on forms which will accompany the provisional programme. The fee for the Congress, including available reprints, and a copy of the final proceedings is expected to be about £4. Further information may be obtained from Dr. G. W. Scott Blair, The University, Reading, Berks.

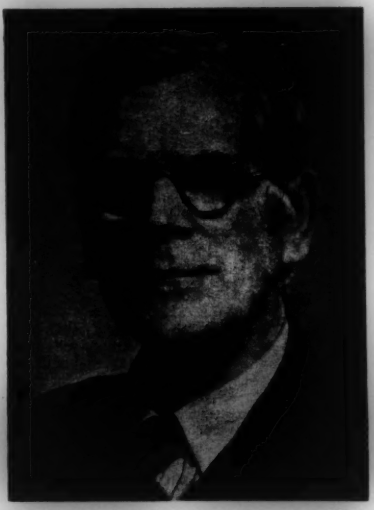
PHYSICAL SOCIETY MEETINGS

Members of all grades of the Institute are invited to attend the following meetings of the Physical Society or its Groups. As a matter of courtesy, notification of intention to attend should be sent in advance to the Secretary-Editor, Physical Society, 1, Lowther Gardens, Prince Consort Road, S.W.7, to whom also should be addressed enquiries concerning meetings of which full details are not given below.

Date and Time	*Subject*	*Lecturer or Organizer*	*Place of Meeting*	*Society or Group*
Nov. 10th 5.30 p.m.	The teaching of acoustics	Dr. E. G. Richardson, Mr. E. Nightingale, Dr. R. W. B. Stephens	Institute of Physics, London	Joint Meeting, Acoustics Group and Institute of Physics, Education Group
Nov. 28th 5 p.m.	Some topics concerning the production and application of nuclear emulsions (Duddell Medal) and	Mr. C. Waller	London	Society
	Paramagnetic resonance at low temperatures (C.V. Boys Prize)	Dr. B. Bleaney	London	Society
Dec. 3rd 3.30 p.m.	The Architectural Use of Colour in Schools	Mr. O. Cox	London Lighting Service Bureau	Colour Group
Dec. 4th 5 p.m.	Annual General Meeting and Low Temperature Physics	Prof. F. E. Simon	Science Museum, London	Low Temperature Group
Dec. 8th 5 p.m.	Methods of measurement of elasticity of solids	Mr. G. Bradfield	Science Museum, London	Acoustics Group
Dec. 17th and 18th	Ionization and energy loss of ultra-relativistic particles	Prof. P. M. S. Blackett	University of Manchester	Society Autumn Meeting

MEMBER OF NOTE

David Owen, B.A., D.Sc.



Now 77 years of age, Dr. Owen is a Founder Fellow of the Institute and has given it great service in the 32 years of his membership. He was educated at King's School, Chester, Alun School, Mold, University College of North Wales, Bangor, and Clare College, Cambridge. He obtained his B.A. in 1897 with a First Class in Part I of the Natural Sciences Tripos in 1896 and a First in Part II the following year; his D.Sc. of the University of London was awarded in 1916.

The whole of Dr. Owen's professional career has been in teaching and academic research. He has held lectureships at Birmingham Technical College, Birkbeck College, London, and Sir John Cass College, London, where he was head of the Department of Physics and Mathematics. His formal retirement in the early days of the war was followed by some years of further work on the staff of King's College, London. Dr. Owen has published about a dozen papers, mainly in the *Proceedings* of the Physical Society and most of them on electrical problems. He is also the author of two books, *Recent Physical Research* (1913) and *Alternating Current Measurements* (1937).

Dr. Owen's service to the Institute has included three periods of four years' service on the Board and the chairmanship of the Membership Committee for some years. When the committee decided to form a small Interviewing Panel to examine selected candidates orally, Dr. Owen was asked to be one of the first two permanent members of the Panel. He has also given much service to the Physical Society, being its Honorary Secretary from 1919–24 and afterwards serving as a member of its Council and a Vice-President. He has also been a member of the Management Committee of *Science Abstracts*.

NEWS OF MEMBERS

The following appointments have been notified:

Fellow

H. H. Watson—Scientific Staff, Defence Research Board of the Canadian Department of National Defence, Ralston, Alberta, Canada.

Associates

G. R. Bainbridge—Lecturer in Physics, The Technical College, Paisley.
K. F. Bowden—Principal Scientific Officer, National Institute of Oceanography, Admiralty Research Laboratory, Teddington, Middlesex.
A. M. Goddard—British Celanese Ltd., Derby.
H. S. Payman—Joint Managing Director, Hawk Ltd., Treforest, Glamorgan.
P. Rhodes—Department of Mathematics, Imperial College of Science and Technology, London, S.W.7.
J. W. Winstanley—Principal, Municipal Technical College, Bury.

Graduates

D. C. Bisset—Exploratory Research Department, Monsanto Chemicals Ltd., Ruabon, North Wales.
E. W. Dickson—Tutorial Student, King's College, University of Durham.
K. W. Hayes—Works Chemist (Plastics and Rubber Technologist), James Halstead Ltd., Whitefield.
E. S. Hotston—Research Assistant, College of Technology, Birmingham.
J. K. Jones—Scientific Officer, Ministry of Supply Establishment, Aldermaston, Berks.
K. J. Marsh—Physicist, Research Division, Metal Box Co. Ltd., Acton, London.
T. R. Prentice—Technical Officer (Physicist), Imperial Chemical Industries Ltd., Stevenston, Ayrshire.
Miss M. A. Richmond—Physics Mistress, High School for Girls, Horsham, Sussex.
H. A. F. Smith—Lecturer, County Technical College, Guildford, Surrey.
L. R. Thompson—Research Physicist, de Havilland Propeller Co., Hatfield, Herts.

THE REGISTER

ELECTIONS TO MEMBERSHIP

An asterisk (*) indicates transfer from another grade.

Fellows

*Andrews, Kenneth William, B.Sc., D.Phil., Head of X-ray Section, The United Steel Companies Ltd., Rotherham.
*Carlisle, Charles Harold, M.Sc., D.Phil., Assistant Director of Research, Birkbeck College Research Laboratory, London.
*Heal, Thomas John, B.Sc., Head of X-ray Crystallography and Physical Measurement Sections, Fulmer Research Institute, Berks.
*Jeffery, James William, B.A., Ph.D., Assistant Director of Research, Birkbeck College, London.

*Martin, John Hume, B.Sc., Ph.D., Director, Physics Department, Peter MacCallum Clinic, Melbourne.
Moon, Philip Burton, M.A., M.Sc., Ph.D., F.R.S., Poynting Professor of Physics, University of Birmingham.
*Noltingk, Bernard Edward, B.Sc., Ph.D., Central Research Laboratory, National Coal Board, Isleworth, Middlesex.
*Robin, Gordon de Quetteville, M.Sc., I.C.I. Research Fellow, University of Birmingham.

Associates

*Bardsley, William, B.Sc., Ph.D., Research Physicist, Royal Holloway College, London.
*Bayley, Stanley Thomas, B.Sc., Ph.D., Assistant Research Officer, National Research Council, Canada.
Briggs, Peter Richard Ashworth, B.Sc., Scientific Officer, British Iron and Steel Research Association, Sheffield.
Bulgin, Douglas, Rubber Physics Section, Dunlop Rubber Co. Ltd., Birmingham.
Clarke, Kenneth Henry, B.Sc., A.R.C.S., Physicist, Commonwealth Department of Health, University of Melbourne.
Davies, Peter Trevor, B.A., Ph.D., Research Physicist, Shell Refining and Marketing Co. Ltd., Chester.
Dobson, Arthur Desmond, M.A., Chief Development Engineer, Short and Maston Ltd., London.
Dowland, William Henry, M.A., Senior Physics Master, West Hartlepool Grammar School.
*Evans, Wynn Humphreys, B.Sc., Ph.D., I.C.I Fellow, University of Liverpool.
*Fricker, Lawrence Charles John, M.Sc., Assistant Technical Manager, Vickers-Armstrong Ltd., Weymouth.
Herz, Albert Joachim, B.Sc., Ph.D., A.R.C.S., Demonstrator, Imperial College, London.
Hutchinson, Walter Charles Andrew, B.Sc., Ph.D., Assistant in Natural Philosophy, University of St. Andrews.
Jain, Nirmal Chand, M.Sc., Assistant Wood Preservation Officer, Forest Research Institute, Dehra Dun.
*Jakeman, Derek, B.Sc., Ph.D., Post Doctorate Fellow, National Research Council, Canada.
King, Leslie Andrew, Research Assistant, Electrical Research Association, Perivale.
Lees, Charles Stephen, B.A., Ph.D., Principal Scientific Officer, Atomic Energy Research Establishment, Harwell.
*Lock, William Owen, B.Sc., Ph.D., I.C.I. Fellow, University of Manchester.
*Morton, Arthur Hilary, M.Sc., Lecturer in Physics, University of Western Australia.
Morton, Percy Frederick, B.Sc., Lecturer, Lancaster and Morecambe College of Further Education.
Muncey, Robert William Roy, M.E.E., Senior Research Officer, C.S.I.R.O., Victoria, Australia.
Padhye, Madkukar Ramchandrarao, M.Sc., Ph.D., Signhanee Lecturer in Colour Physics, University of Bombay.
Parry, George Sparling, B.Sc., Ph.D., A.R.C.S., I.C.I. Fellow, University of Leeds.
Ramsay, Ivor William, M.Sc., Physicist, Central Laboratories, West Midland Gas Board, Birmingham.
Raychaudhuri, Benvoy Chandra, M.Sc., Scientific Assistant (Physicist), Central Building Research Institute, India.
Scouloudi, Helen, Ph.D., Research Associate, University of Southern California, Los Angeles.
Stark, Donald Sutherland, B.Sc., Assistant Experimental Officer, Services Electronics Research Laboratory, Herts.
Tapper, Edward William, B.Sc., Senior Master in Physics and Engineering, Dulwich College.
*Tipton, Henry, B.Sc., Research Officer, British Cotton Industry Research Association.
Tucker, Malcolm John, B.Sc., Senior Scientific Officer, National Institute of Oceanography, Middlesex.
*Wilson, Alan Ralph, M.Sc., Scientific Officer, Australian Government Civil Service.
*Young, James George Raynor, B.Sc., Physicist, General Electric Co. Ltd., Wembley.

Graduates

*Beazley, Kenneth Michael, B.Sc., Research Student, University College, Hull.
*Bishop, James Tregarthen, B.Sc., Research Assistant, New England University College, Armidale.
*Boyle, Hugh McFayden, B.Sc., Physicist, Marconi's Wireless Telegraph Co. Ltd., Chelmsford.
Bugden, Anne, B.Sc., Physicist, Research Laboratory, British Thomson-Houston Co. Ltd., Rugby.
Burden, Peter Frank, B.Sc., University College, Leicester.
Copley, Christian Henry, B.Sc., Assistant Lecturer, Hendon Technical College.
Culpin, Michael Frank, B.Sc., Research worker, Royal Institution, London.
Edwards, Charles Howard, B.Sc., Senior Physics Teacher, Haverfordwest Grammar School, Pembroke.
Flinn, Ian, B.Sc., Research Physicist, British Aluminium Co. Ltd., Gerrards Cross.
Garrett, John Herbert, Assistant, Christie Hospital and Holt Radium Institute, Manchester.
Hardcastle, Raymond Albert, Assistant Experimental Officer, Post Office Research Station, Dollis Hill.
Hine, Dennis John, B.Sc., Research Physicist, Research Association of British Rubber Manufacturers, Croydon.
*James, David Ivan, B.Sc., Physicist, Ericsson Telephones Ltd., Nottingham.
Johnson, Alan Arthur, B.Sc., Research Student and Demonstrator in Physics, University of Toronto.
Johnson, Philip, B.Sc., Technical Officer, Imperial Chemical Industries Ltd., Stevenston.
King, Noel Henry, B.Sc., Physicist, Amalgamated Wireless (Australasia) Ltd., Sydney.
*Lewis, Morgan Selwyn, B.Sc., Scientific Officer, Royal Aircraft Establishment, Farnborough.
*McAlpine, Duncan, B.Sc., Development Engineer, Salford Electrical Instruments Ltd., Salford.
Mendoza, Alfred Maurice, B.Sc., Assistant Experimental Officer, E.R.D.E., Ministry of Supply, London.
Rose, Graham Stewart, B.Sc., Research Student, Mining Department, University of Birmingham.
*Sheldon, Eric Bernard, B.Sc., Research Student, Acton Technical College.
Smith, Samuel Douglas, B.Sc., Senior Physics Master, Oldbury Grammar School.
*Smith, Gallienus William, B.Sc., Scientific Officer, British Insulated Callenders Cables Co. Ltd., London.
Snowden, Kenneth Ulmer, B.Sc., Scientific Officer, Department of Works and Housing, Australia.
*Stacey, Arthur James, B.Sc., Research Trainee, Metropolitan Vickers Electrical Co. Ltd., Manchester.
Tarnowski, Andrew Adam, B.Sc., Research Assistant, Kodak Ltd., Harrow.
*Worboys, Arthur Frederick, B.Sc., Development Engineer, Wilmot Breeden Ltd., Birmingham.

Subscribers

Bunton, Thomas, Assistant Radiologist, J. Dale Ltd., London Colney.
McKenny, Basil John, Assistant Chemist and Metallurgist, J. Dale Ltd., London Colney.
Pendrey, Arthur Leonard, Metallurgical Chemist, J. Dale Ltd., London Colney.

Students

Gray, A. J., University of Sydney.
Jones, M. J., Acton Technical College.
Karas, G. C. E., The Polytechnic, Regent Street, London.
Rainbird, A. F., University of Sydney.
Rock, B. M., Bradford Technical College.
Rutledge, R. H., University of Glasgow.
Zarzycki, J., Borough Polytechnic.

DECEASED

The deaths of the following members are recorded with regret:
Fellows—G. H. Baillie, F. W. W. Baker, J. Gregory, Sir Richard Gregory, K. A. K. Hallowes, C. H. Lees, W. Letherich, F. H. Newman, P. Parker, J. H. Roberts, E. V. Rowell, E. Seddon, W. Wilson, F. B. Young.

Associates—D. K. Ashpole, W. E. W. Baker, P. A. Curry, M. M. Nicolson, F. W. Osborn.

Subscribers—W. H. Brown, W. J. Elford, A. E. Knight, K. B. Merling.

APPOINTMENTS VACANT

The inclusion of particulars of a vacancy must not be taken to imply that the Institute necessarily approves of the terms offered or that might be offered. Candidates should satisfy themselves that these are satisfactory, and they may always refer to the Institute for advice.

St. Benedict's School, Ealing, London, W.5, require for January, 1953, (1) a **Senior Mathematics Master**, (2) a **Master to teach Physics,** both posts for work up to Scholarship standard. Commencing salary £600–£750 to a suitable applicant. Details from the Headmaster.

Salisbury Group Hospital Management Committee invite applications for the post of **Research Assistant** at the Plastic Surgery Centre, **Odstock Hospital,** Salisbury, for work in connection with the application of radio-active isotopes to clinical research. The appointment is for two years in the first instance with a salary of £500 per annum. Applicants should have an Honours degree in Physics with an interest in biological sciences. Applications to be sent to Group Secretary, Odstock Hospital, Salisbury, by 24th November, 1952.

Physicists required to join a research group of chemists, metallurgists and ceramists engaged in the development of materials for the electronic, radio and radar industries. Applicants should have a science degree or equivalent qualifications. Previous experience of measuring the magnetic or dielectric properties of materials an advantage. Salary in the range £450–£700 according to age, qualifications and experience. Apply to Box No. A.V.29, The Institute of Physics, 47 Belgrave Square, London, S.W.1.

Medical Research Council, Werhner Research Unit on Deafness, Royal National Throat, Nose and Ear Hospital, Golden Square, London, W.1. Applications are invited for two appointments on the **Scientific Staff** to work on problems connected with hearing and deafness. Candidates should have an Honours degree in Physics or Electrical Engineering, and should have as an aim concentration on a career of research in acoustics and electro-acoustics.

For one of these appointments, research experience in these or allied subjects is desirable. The other is intended for a young graduate wishing to commence a career in these subjects.

Salaries on the Council's scale for scientific staff, and dependent on qualifications and experience.

Applications should be made to the Director of the Unit from whom further particulars may be obtained.

Industrial Radiographer wanted, experienced in light alloy radiography, to take charge of newly established laboratory, preferably resident in North London. Apply Box No. A.V. 30, The Institute of Physics, 47 Belgrave Square, London, S.W.1.

British Electricity Authority—Scientific Staff—Research Laboratories, Leatherhead. Candidates should have a 1st or 2nd class Honours degree in Electrical or Mechanical Engineering or in Physics and preferably some research experience. Duties include testing, development and research work in the laboratories and in the field in connexion with the generation, transmission and distribution of electricity. Appointments, which are superannuable, will be made within the following N.J.B. grades according to qualifications and experience:—

Second Assistant	Grade 3—£775–£1,134
Third Assistant	Grade 4—£697–£909
General Assistant	Grade 5—£511–£709

Forms from D. Moffat, Director of Establishments, British Electricity House, Winsley Street, London, W.1, to be returned by 24th November, 1952. Quote reference AE/299.

Ministry of Supply has Scientific Officer class vacancies at Research Establishments in S.E. England. **Experimental Physicists,** near Southend, with interest in light engineering or metallurgy. Duties may include field work. (Ref. A279/52/A.) **Theoretical Physicists** or **Applied Mathematicians,** near Sevenoaks—experience in astro-physics useful for one post. (Ref. A280/52/A.) Qualifications—1st or 2nd class Honours degree or equivalent in physics or mathematics. For senior grade minimum age 26 years with at least 3 years' post-graduate research experience. Grade and salary assessed on age and experience within ranges Senior Scientific Officer £781–£980: Scientific Officer £417–£675. Women somewhat less. Posts unestablished. F.S.S.U. benefits. Application forms from Ministry of Labour and National Service, Technical and Scientific Register, (K), 296 King Street, London, S.W.1, quoting appropriate reference. Closing date 22nd December, 1952.

A large manufacturing organization has, in its central laboratories, vacancies for **Research Engineers** and **Physicists** of grades ranging from those approaching Higher National Certificate standard, to specialists having outstanding qualifications.

The work is associated with various industrial electronic projects including the design of specialized testing equipment, development of semi-conductors and transistors, communication systems, and microwaves. It offers ample scope for candidates having aptitude for research, with initiative in tackling problems on their own responsibility.

Salary scales are in accord with those at present obtaining in the industry.

Applications should be made to the Personnel Manager, **Standard Telecommunication Laboratories Ltd.,** Progress Way, Enfield, Middlesex.

Commonwealth of Australia, Department of National Development, Bureau of Mineral Resources, Geology and Geophysics, Geophysical Section, Melbourne, have a vacancy for **Supervising Geophysicists.** The duties will be to supervise and inspect all field operations in connection with geophysical prospecting for mineral deposits, primarily coal, petroleum, natural gas and water. Candidates must have a university degree, preferably with Honours or its equivalent, with a major in one or more of the following—Geophysics, Physics, Geology, Mathematics, the course necessarily having included Physics and Mathematics to at least second year standard and Geology to at least first year standard. Extensive experience in geophysical investigations of sedimentary basins, particularly regarding prospecting for oil. Salary will be £1,540–£1,726; the successful applicant will be eligible for permanent appointment to the Public Service and to superannuation benefits.

First-class boat fares (if first-class berths available) of the appointee and dependants (wife and dependant children) will be paid by the Commonwealth subject to the employee entering into a bond to remain in the employment of the Commonwealth for a period of not less than three years. The salaries shown are actual (including cost of living, etc.) and are in Australian currency.

Applications should be forwarded to the Deputy High Commissioner, Australia House, The Strand, London, W.C.2, marked for attention of the Senior Representative, Division of Industrial Development, not later than November 20, 1952.

University of Sydney, School of Physics, require **Lecturers, Senior Lecturers, Readers,** in Physics. Professor H. Messel has recently been appointed Professor of Physics and Head of the School of Physics. Staff at present consists of Professor V. A. Bailey, Professor of Experimental Physics, one Reader, three Senior Lecturers, one Lecturer and nine full-time temporary lecturers.

The Senate has decided to make five additional appointments to the teaching staff and to consider making permanent appointments in replacement or conversion of some of the temporary positions. Applications are invited for Lectureships or Senior Lectureships in Physics. Should applicants be of sufficient standing, consideration will be given to making not more than two appointments at the grade of Reader. In addition to the normal teaching duties, the School will be concerned with research in a number of fields of Physics. Particular attention will be paid to Experimental High Energy Nuclear Research using Cosmic Rays and to Modern Theoretical Physics. The experimental work will be carried out using photographic plate emulsions and balloons, geiger-muller counters, cloud chambers and ionization chambers.

The salaries are in the range of: Readers—£1,500 (Australian); Senior Lecturers—£1,050–£1,300 (Australian); Lecturers—£650–£1,000 (Australian) per annum, plus cost of living adjustment (at present £231 males and £175 females per annum) with annual increments of £50 and subject to deductions under the State Superannuation Act. The commencing salary will be fixed according to qualifications and experience.

Further particulars and information as to the method of application should be obtained from the Secretary, Association of Universities of the British Commonwealth, 5 Gordon Square, London, W.C.1. The closing date for the receipt of applications in London and Australia is January 12, 1953.

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